

Putting Technology To Work 505 King Avenue Columbus, Ohio 43201-2693 Telephone (614) 424-6424 Facsimile (614) 424-5263

July 21, 2003

Mr. Thomas Baillieul, Director U.S. Department of Energy Columbus Closure Project 1425 Plain City-Georgesville Rd. West Jefferson, OH 43162

Dear Mr. Baillieul:

## **WEEKLY HIGHLIGHTS (July 12-18, 2003)**

## I. Operations:

#### **Building JN-1:**

Work continued under Work Instruction (WI) -1197 for removing the Alpha/Gamma area evaporator holding tank. All water and sludge were pumped out of the tank. The tank was rinsed and filled with foam to address void space issues at the disposal site. The pit area and tank are being painted with epoxy paint to lock down the contamination and make the area easier to survey.

Work on WI-1105 that addresses painting and stripping the High Energy Cell (HEC) continued this week. The walls were sampled for Waste Management characterization. All unneeded material was removed from the cell. Repairs of the InstaCote® polyurea machine continued.

Review comments are still being incorporated into WI-1162 for stabilization of the HEC vent line.

WI-1160, Decontamination and Stabilization of the Controlled Access Area (CAA)/Old Back Dock (OBD), Evaporator Room, Charpy Cell, and the CAA Foyer, continued in the Charpy Cell and the OBD area.

Staff members were briefed on WI-1203, Evaporator Room Material Removal, in anticipation of the work starting ahead of schedule.

Mr. Thomas Baillieul, Director U.S. Department of Energy Columbus Closure Project July 21, 2003
Page 2 of 5

Continued work installing electrical conduit/wire the in Pump Room. Installation of the roof for the waste management room was completed.

WI-1043, Utility Removal in the HEC, Cask Wash Down Room, JN-1B High Bay, and the HEC Operations Area, continued in the JN-1B HEC Operations Area.

For the High Level Cell/Low Level Cell HEPA ventilation stabilization, a requisition has been placed in the Battelle Columbus Operations (BCO) purchase order system for technical representatives from InstaCote to demonstrate through three unique mock-ups that their design approach to stabilizing with an epoxy product is technically feasible.

#### Saxton Waste Management:

A cold mock-up was performed in the JN-1B High Bay. The Saxton pin was transferred into a drum shield with a spacer installed, and then both drum shields were transferred to the Waste Storage Shed in preparation for beginning work when the CAA becomes available. The Battelle-designed shipping canister was received. Work continued with the cask vendor on the shipping option.

#### **Building JN-3:**

Water is being continually pumped from under the JN-3 basement via the wells and pumps installed in the Pump Room and around the reactor pool.

Underground drain line removal remains on hold because of higher priority projects

#### West Jefferson (WJ) External Areas:

Groundwater is being pumped from the wells on the exterior of JN-3

DLZ completed drilling of the downgradient wells. These wells are now being developed

#### Transuranic (TRU) Waste Shipping:

WSI is continuing its design and engineering modifications to its equipment for the 72-B Cask inner canister remote welding demonstrations. The vendor functional demonstration was rescheduled for August 7 and 8 at its facility in Norcross, GA. Battelle Columbus Laboratories Decommissioning Project's (BCLDP's) demonstration was scheduled for August 18 through 29. Work involving WSI will be performed during the first week so that WSI personnel can leave to begin any needed modifications. Work involving the Waste Isolation Pilot Plant (WIPP) personnel will be performed during the last week. The schedule also currently reflects performing the actual 72-B Cask TRU loading September 15 through 24. Writing continued on WI-1205 covering the 72-B Cask mockup/demonstration.

Mr. Thomas Baillieul, Director U.S. Department of Energy Columbus Closure Project July 21, 2003
Page 3 of 5

The WIPP sent three operators to tour the facility to help in planning the 72-B cask mockup. Several issues were worked out with the WIPP personnel, including placing equipment within the High Bay, providing equipment (who will provide what), and modifying WIPP procedures to be used as Battelle procedures for its personnel working at the site. Schedule changes and project specifics were discussed during the eighth weekly conference call between BCLDP and WIPP.

Management and staff briefings were completed Monday and Tuesday for the JN-4 plutonium waste repackaging. Setup for work in the CAA was completed on Wednesday Workers repackaged the six "recovery" drums from WI-978 without incident. Workers began opening and repackaging the M-34 box on Friday. This work will continue next week.

#### TRU Waste Staging Pad:

A TRU Waste Staging Pad pre-bid meeting was held for four contractors who have been asked for a bid quotation. Three bid quotations on the TRU Waste Staging Pad were received. The quotations received in response to the Request for Quotation were technically evaluated, and the conclusions of the Technical Analysis will be documented in a letter to Procurement.

Two10-foot-deep soil boring samples to confirm soil conditions under the TRU Waste Staging Pad were secured.

The TRU Waste Staging Design Criteria was completed and approved by the Engineering Manager.

A meeting was held with Security and its Vulnerability Assessment support to discuss revised security requirements for the TRU Waste Staging Pad based on the 90% design. Feedback was received from Security with its requirements, which will be implemented through a Design Change Notice with the contractor once the bid is awarded.

The Design Verification (100% design) prints/specifications were completed and picked up from BWSC. The prints/specifications, engineering design calculations, and shielding analysis will undergo a Design Verification review next week, with required print/specification changes communicated to BWSC for a set of "Release for Construction" prints/specifications to be completed.

The WI for implementing the TRU Waste Staging Area design prints/specifications is being prepared.

An overall TRU Waste Movement schedule was developed this week by integrating the TRU Waste Staging Pad construction, shielding unit delivery and placement, High Bay mock-ups for the 72-B Cask loading, LLW shipment in a cask, and movement of both

Mr. Thomas Baillieul, Director U.S. Department of Energy Columbus Closure Project July 21, 2003
Page 4 of 5

contact and non-contact TRU waste to the pad. A follow-on meeting was held with all affected individuals to confirm the practicality of the schedule's implementation.

#### **Building JN-4 Isolation Plan:**

Bruner, the underground utility contractor, continued minor excavation for water, gas, and sanitary sewer lines in the area west of JN-4. Backfill on some of the trenches was completed Excavation east of perimeter fence was continued. Follow-up BCLDP meeting with Bruner Management personnel was delayed until Tuesday to address the revised completion schedule

Contractor completed concrete encasement of existing IM and electric conduits. Dedicated security personnel for the project were scheduled.

#### Low Level Waste (LLW) Operations:

Fifty-three cubic feet (53 ft<sup>3</sup>) of compactible LLW were accepted for packaging. Non-compactible low-level debris from radioactive material areas in JN-1 was packaged into B-25 boxes, for a total volume of 45 ft<sup>3</sup> for Envirocare of Utah disposal.

Approximately 11 cubic feet (11 ft<sup>3</sup>) of clean compactible waste from JN-1 and six cubic yards (162 ft<sup>3</sup>) of soil removed from the pipe trench in the JN-3 basement were radiologically free-released for municipal disposal.

Eleven B-25 boxes of LLW were shipped to Envirocare for disposal. Total volume of LLW in this shipment was 1,047 ft<sup>3</sup>. By re-evaluating B-25 boxes originally designated for Hanford Nuclear Facility disposal with the latest revision of DD-98-04 (LLW dose-to-curie program), BCLDP Waste Management was able to re-designate 360 ft<sup>3</sup> of LLW included in this shipment to Envirocare. This action resulted in a cost avoidance of more than \$39,000.

#### **WIDE Technology Deployment:**

Work remains on hold (WI-984).

## II. Environmental Safety and Health Performance:

Safety performance is 297 days and 207,700 exposure hours without a lost time injury accident.

## III. Facilities and Equipment:

Daily, weekly, and monthly inspections and maintenance for the WJ North facility alarms, instrumentation, building functions, tickler system, and grounds were completed. The old evaporator was turned off. Procedures for the new water processing room are being developed. Staff assisted in DOE site tours. Hyster repaired the starting problem of the

Mr. Thomas Baillieul, Director U.S. Department of Energy Columbus Closure Project July 21, 2003
Page 5 of 5

Yale 4,000-lb forklift. A meeting was held with Prater Engineering and BCO Facilities to finalize the design modification to the 5,000-cfm makeup HVAC to maintain the JN-1B air balance.

## IV. Program Administration and Control

The Monthly Status Report for June 2003 was submitted to DOE-CCP on July 15. 2003.

# V. Future Work Activities:

Attached is the projected work schedule for the coming weeks.

Sincerely,

Patrick Weaver, P.E., Manager

Operations

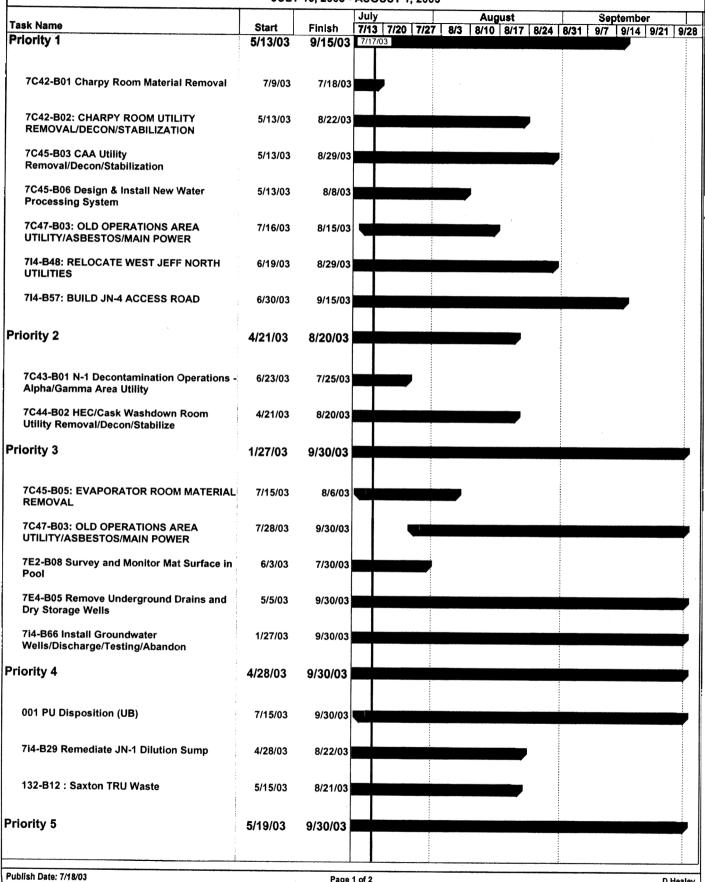
PJW:dew/dmk Attachments: (2)

#### SIS/TAR SUMMARIZED ACTIVITIES WITHIN DATE RANGE JULY 16, 2003 - AUGUST 1, 2003

Data Date: 7/17/03

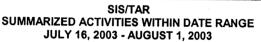
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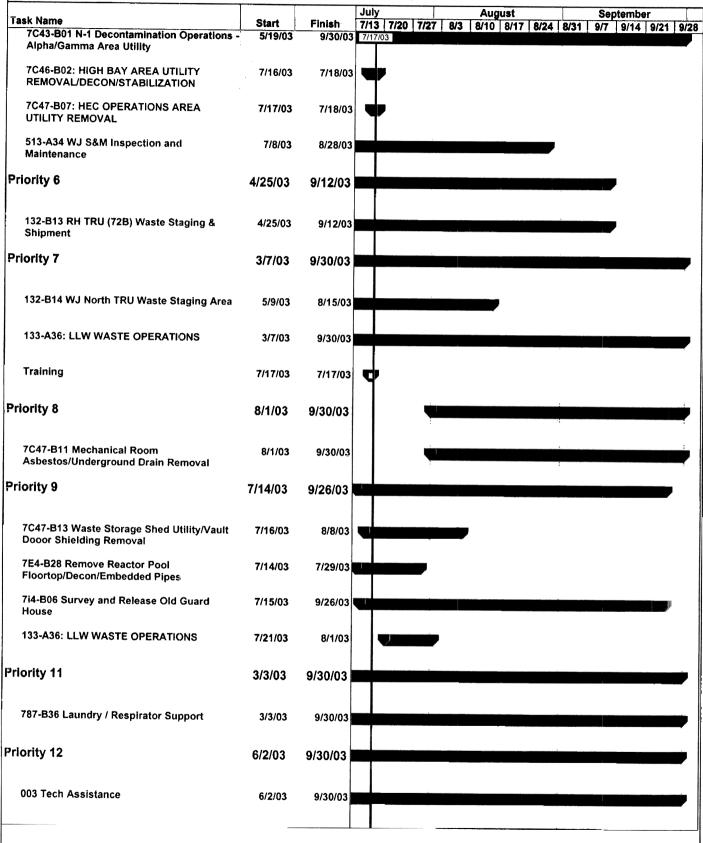


Page 1 of 2

SISTAR 7 17



Data Date: 7/17/03



Publish Date: 7/18/03 SISTAR 7 17

# Waste Issue Tracking

Issue:

JN-4 Plutonium Repackaging

Project Manager:

Parsons

Task:

P-1

**Date Due:** 

5/15/2003

HNF acceptance

**Date Complete:** 

5/15/2003

Date Identified:

4/30/2003

Task Owner:

Eide

Subtask		Date Identified	Dantani O IIII	 Status	Date Completed
	Box acceptance	4/30/2003	Eide	Much waste is in boxes rather than drums (due to content's size). Standard waste boxes will be used for packaging regardless of HNF approval, and SWBs will be shipped in 72B casks.	

Task:

P-2

Date Due:

5/12/2003

Schedule for Pu Repackaging **Date Complete:** 

5/8/2003

Date Identified:

4/30/2003

Task Owner:

Parsons

Subtask		Date Identified	Subtask Owner	Date Due	Status	Date Completed
	Create Schedule	4/30/2003	Parsons	5/12/2003	Can start repackaging in the June/July timeframe at latest to accomplish work by	5/8/2003
					Oct 1.	

P-3

Date Due:

Operational Planning

**Date Complete:** 

Date Identified:

Task Owner:

Parsons

Subtask		Date Identified	Subtask Owner	Date Due	Status	Date Completed
	Prepare Work Instruction		Parsons	6/27/2003	WI preparation is dependent upon the decided work location (see P-3.2). WI is currently in the review cycle.	6/30/2003
P-3.2	Prepare work area		Garber	7/14/2003	The work location for repackaging is planned for prior work, and will be prepared to serve as the work area for multiple hot/airborne potential operations.	
P-3.3	Receive SWBs	6/17/2003	Parsons	6/27/2003	SWB = Standard Waste Box.	6/30/2003
P-3.4	Generate data packages	6/17/2003	Parsons	7/31/2003	Data packages to go into TRU records.	

Saxton Pin

Project Manager:

Henderson

Task:

S-1

Date Due:

6/13/2003

Obtain use of GE-2000

Cask.

**Date Complete:** 

.

Date Identified:

4/18/2003

Task Owner:

Weaver

Subtask		Date Identified	Subtask Owner	Date Due	Status	Date Completed
	Modify GE-2000 CoC	4/18/2003	Weaver	5/28/2003	Modification request sent to NRC by GE on 6/2/03.	6/2/2003
S-1.2	Obtain GE QA Manual	4/29/2003	Pomares (GE)	5/2/2003		5/2/2003
S-1.3	Place GE on ASL	4/29/2003	Welch	5/6/2003	GE QA Manual has been reviewed.	5/6/2003
S-1.4	Complete SRS paperwork	4/29/2003	Maheras	6/13/2003		
S-1.5	Register as a Cask User	4/29/2003	Eide	6/1/2003	R. Pomares will send an example registration letter.	
S-1.6	Prepare RFQ/RFP	5/12/2003	Henderson	5/15/2003	GE estimate received 5/30/03. Forwarded to Battelle Contracting.	6/3/2003
S-1.7	Realign CoC approval process	5/12/2003	DOE		NRC has reclaimed review responsibility from DOE as of 6/30/03.	6/30/2003
S-1.8	Finalize Cask contract	5/12/2003	Weaver	7/16/2003	Per discussion with Battelle Senior Procurement Officer, pursuing contranctual and corporate waivers to allow finalization of subcontract. SOW has been revised and sent to GE.	
S-1.9	Obtain GE-2000 SARP	6/17/2003	Weaver	6/23/2003	Information retrieved, but no longer needed by DOE (not the approving agency).	7/2/2003

S-2

Date Due:

6/5/2003

Mock up - unload pin

Date Complete:

5/30/2003

**Date Identified:** 

4/18/2003

Task Owner:

Henderson

Subtask		Date Identified	Subtask Owner	Date Due	Status	Date Completed
	Fabricate Mock-up Liner	4/18/2003	Garber	4/22/2003	Liner has been received.	
S-2.2	Plan for mock-up of pin removal	4/18/2003	Henderson		Documentation for a series of WIs to accomplish this is being prepared.	5/8/2003
S-2.3	Perform Mock-up	4/18/2003	Henderson	6/5/2003		5/30/2003

Task:

S-3

**Date Due:** 

4/21/2003

Schedule for pin effort

Date Complete:

4/28/2003

Date Identified:

4/18/2003

Task Owner:

Weaver

Subtask		Date Identified	Subtask Owner	Date Due	Status	Date Completed
	Provide schedule to DOE	4/18/2003	Weaver	4/21/2003	A draft schedule was submitted to DOE.	4/28/2003
	C 4	Data Duas	5/6/2003			

Task:

S-4

Date Due:

5/6/2003

DOE Executive Decisions

Date Complete:

5/20/2003

Date Identified:

4/30/2003

Task Owner:

DOE

Subtask		Date Identified	Subtask Owner	Date Due	Status	Date Completed
	DOE conference call (NEPA)	4/30/2003	DOE		DOE has decided to ship under CX.	5/20/2003
S-4.2	Notify SRS to receive pin	4/29/2003	Weaver	5/6/2003	DOE-OH sent DOE- SRS request for support.	5/13/2003

Page 4 of 11

S-5

Date Due:

Transportation Plan

Date Complete:

Date Identified:

5/13/2003

Task Owner:

Eide

Subtask		Date Identified	Subtask Owner	Date Due	Status	Date Completed
	Determine Security needs	5/13/2003	Eide		Shipment of pin is not HRC, but any increased security needs must be identified.	
S-5.2	Prepare Plan	5/13/2003	Eide		Oak Ridge plan received as an example. Transmitted to J. Eide 5/30/03.	

Task:

S-6

Date Due:

Pin repackaging

**Date Complete:** 

Date Identified:

6/17/2003

Task Owner:

Erickson

Subtask		Date Identified	Subtask Owner	Date Due	Status	Date Completed
	Prepare WI	6/17/2003	Erickson		All review comments incorporated. Has been routed for approval. Should be issued NLT 7/11/03.	
S-6.2	MOC Meeting #1	6/27/2003	Friedman		Schedule Management Oversight Committee (MOC) meeting to review and approve readiness to repackage pin in stainless steel overpack and store in cask #22 until GE-2000 is available.	

TRU Shipment to Hanford

Project Manager:

Garber

Task:

TH-1

**Date Due:** 

5/16/2003

Lift Shipment Prohibition

**Date Complete:** 

Date Identified:

4/18/2003

Task Owner:

DOE-RL

Subtask		Date Identified	Subtask Owner	Date Due	Status	Date Completed
	Argue in Federal Court	4/18/2003	DOE-RL	5/2/2003	Judge has decided to maintain injunction. The only current option to ship to Hanford is for DOE to appeal this ruling.	

Task:

TH-2

**Date Due:** 

5/16/2003

14-day Shipping Notice

**Date Complete:** 

Date Identified:

5/5/2003

Task Owner:

Eide

Subtask	Date Identified	Subtask Owner	Date Due	16. 4 04.6 04.0	Date Completed
Initiate shipping notice	5/16/2003	Eide		The Judge has upheld the injunction (See item TH-1.1). We are unlikely to ship any	

TRU Storage On Site

Project Manager:

Rohrig

Task:

TO-1

**Date Due:** 

6/6/2003

Define options

**Date Complete:** 

6/16/2003

Date Identified:

4/18/2003

Task Owner:

Weaver

	Date Identified	Subtask Owner	Date Due	Status	Date Completed
Determine Path Forward	4/18/2003	Weaver	5/22/2003	Onsite Storage is our only current option. A number of potential staging sites have been identified.	
Discuss options with Security/Facilities	5/12/2003	Weaver	5/22/2003	Staging location options must meet approval of both Battelle Security and Facilities. Currently investigating potential sites.	5/22/2003
NRC schedule impact by option	5/22/2003	Friedman	5/28/2003	Schedule conference call with NRC to discuss. Call rescheduled to 6/9/03.	5/28/2003
Staging Site Decision	5/30/2003	Weaver	6/12/2003	Date has slipped from 6/6/03. Awaiting management decision before proceeding with licensing and design.	6/16/2003
	Discuss options with Security/Facilities NRC schedule impact by option	Determine Path Forward  Discuss options with Security/Facilities  NRC schedule impact by option  5/22/2003	Determine Path Forward  Discuss options with Security/Facilities  NRC schedule impact by option 5/22/2003 Friedman option	Determine Path Forward 4/18/2003 Weaver 5/22/2003  Discuss options with 5/12/2003 Weaver 5/22/2003  Security/Facilities  NRC schedule impact by option 5/22/2003 Friedman 5/28/2003 option	Determine Path Forward  4/18/2003  Weaver  5/22/2003  Onsite Storage is our only current option. A number of potential staging sites have been identified.  Discuss options with 5/12/2003  Staging location options must meet approval of both Battelle Security and Facilities. Currently investigating potential sites.  NRC schedule impact by option  5/22/2003  Friedman 5/28/2003  Schedule conference call with NRC to discuss. Call rescheduled to 6/9/03.  Staging Site Decision 5/30/2003  Weaver 6/12/2003  Date has slipped from 6/6/03. Awaiting management decision before proceeding with

Task:

TO-2

**Date Due:** 

6/6/2003

Storage facility design

Date Complete:

7/7/2003

Date Identified:

4/28/2003

Task Owner:

Weaver

Subtask		Date Identified	Subtask Owner	Date Due	Status	<b>Date Completed</b>
	Define design inputs	4/28/2003	Gantos	6/12/2003	Date has slipped from 6/6/03. Awaiting dose modeling data for alternate configurations of final location. Final configuration needs approval.	

	TO 3	Doto Duoi	6/23/2003			
TO-2.4	Cost Estimate	4/28/2003	Weaver	5/16/2003		5/16/2003
TO-2.3	Unify interpretations	4/30/2003	Friedman	5/6/2003	Conference call with NRC, DOE, and BCLDP to define path forward and interpretations.	5/6/2003
TO-2.2	Complete design	4/28/2003	Rohrig	6/12/2003	Date has slipped from 6/6/03. Complete design based on item TO-2.1 and NRC Information Notices. A/E firm is working on initial design.	7/7/2003

TO-3

**Date Due:** 

6/23/2003

Assure coverage under

NEPA

**Date Complete:** 

Date Identified:

5/6/2003

Task Owner:

Weaver

Subtask		Date Identified	Subtask Owner	Date Due	Status	Date Completed
	Review BCLDP EA	5/6/2003	Swartz	5/23/2003	Review of the 2001 Updated EA determined that onsite temporary storage of TRU is covered with respect to NEPA. Awaiting a formal memo attesting to this from Battelle NEPA expert.	
TO-3.2	2nd review of EA	6/17/2003	Weaver	6/23/2003	Addition of this subtask has caused task TO-3 to be re-opened. Second review of the EA is needed to assess coverage for outside handling of TRU waste. Awaiting disposition by Battelle Legal.	
	TO-4	Date Due:	5/22/2003			
	Purchase Shielding units	Date Complete	e: 5/27/2003			

Task:

Date Identified:

5/14/2003

Task Owner:

Weaver

Subtask	Date Identified	Subtask Owner	Date Due	Status	Date Completed

Friday, July 11, 2003 Page 8 of 11

TO-4.1	Submit P.O.s	5/14/2003	Weaver	5/16/2003	Submit to multiple vendors (Dufrane and Duratek). P.O.s Should be flexible enough to allow multiple configurations.	5/27/2003
TO-4.2	Determine appropriate configuration	5/14/2003	Weaver	5/22/2003	5 pc. or 2 pc. Configuration of storage units will be dependent on onsite storage location.	5/22/2003
TO-4.3	Purchase additional units	6/9/2003	Weaver	6/27/2003	Use change order to existing POs for shielding units for CH waste.	6/30/2003
TO-4.4	Prepare for receipt of shielding units	6/17/2003	Rohrig	8/8/2003	Logistical plan for arrival of first shielding units.	

TO-5

Date Due:

6/1/2003

NRC Approval

**Date Complete:** 

Date Identified:

5/6/2003

Task Owner:

Allen

Subtask		Date Identified	Subtask Owner	Date Due	Status	Date Completed
	Submit storage plan to NRC	5/6/2003	Allen		Preparation of plan somewhat dependent upon chosen storage location. Draft Path Forward document circulating for review and comment. Awaiting final decision for staging pad.	6/23/2003

Task:

TO-6

Date Due:

8/1/2003

72-B Casks

**Date Complete:** 

Date Identified:

5/12/2003

Task Owner:

Weaver

Subtask		Date Identified	Subtask Owner	Date Due	Status	Date Completed
	Cask Demonstrations		Garber		Must be completed prior to loading waste into 72-B Casks.	
TO-6.2	Obtain 2 72-B Casks from WIPP		Eide		New scope has reopened this item. Official commitment by WIPP to loan us the 72-B casks obtained 7/2/03.	

TO-7

Date Due:

Construct Pad

Date Complete:

Date Identified:

6/17/2003

Task Owner:

Rohrig

Subtask		Date Identified	Subtask Owner	Date Due	Status	Date Completed
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	PO for construction	6/17/2003	Rohrig		This date has slipped from 6/20/03. Three potential bidders (current onsite subcontractors) have been identified.	

TRU Shipment to WCS

Project Manager:

Erickson

Task:

TW-1

Date Due:

Amend ROD

**Date Complete:** 

Date Identified:

4/18/2003

Task Owner:

DOE-CAO

Subtask		Date Identified	Subtask Owner	Date Due	Status	Date Completed
	Update small quantity site's TRU data to allow ROD update	4/18/2003	DOE-CAO		Amend TRU Programmatic EIS ROD to include interim storage at WCS.	
TW-1.2	DOE OFO contact WIPP	5/14/2003	DOE OFO			
TW-1.3	BMI Offer Assistance	5/14/2003	Eide	5/23/2003	Battelle to offer asistance in amending ROD to Ines Triay. Also Discuss WCS option with Vernon Dobb.	5/22/2003